

03-23-01

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Please type a plus sign (+) inside this box [+]

PTO/SB/05 (11-00)

Approved for use through 10/31/2002. OMB 0651-0032

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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**UTILITY PATENT APPLICATION TRANSMITTAL**

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No. 42390.P11005

(maximum 12 characters)

First Named Inventor Francisco A. LeonTitle: METHOD OF FABRICATION TO SHARPEN CORNERS OF Y-BRANCHES IN INTEGRATED OPTICAL COMPONENTS AND OTHER MICRO-DEVICESExpress Mail Label No. EL431685258US11033 U.S. PRO  
09/814424

03/21/01

ADDRESS TO: **Assistant Commissioner for Patents**  
**Box Patent Application**  
**Washington, D. C. 20231**

**APPLICATION ELEMENTS**

See MPEP chapter 600 concerning utility patent application contents.

1.   X   **Fee Transmittal Form (e.g., PTO/SB/17)**  
(Submit an original, and a duplicate for fee processing)
2.        **Applicant Claims Small Entity Status. (37 CFR 1.27)**
3.   X   **Specification (Total Pages   17  )**  
(preferred arrangement set forth below)
  - Descriptive Title of the Invention
  - Cross Reference to Related Applications
  - Statement Regarding Fed sponsored R & D
  - Reference sequence listing, a table,  
or a computer program listing appendix
  - Background of the Invention
  - Brief Summary of the Invention
  - Brief Description of the Drawings (if filed)
  - Detailed Description
  - Claim(s)
  - Abstract of the Disclosure
4.   X   **Drawings(s) (35 USC 113) (Total Sheets   4  )**
5.   X   **Oath or Declaration (Total Pages   6  )**
  - a.        Newly Executed (Original or Copy)
  - b.        Copy from a Prior Application (37 CFR 1.63(d))  
(for Continuation/Divisional with Box 17 completed)
  - i.        **DELETIONS OF INVENTOR(S)** Signed statement attached deleting  
inventor(s) named in the prior application, see 37 CFR 1.63(d)(2)  
and 1.33(b).
  - c.   X   Unsigned.
6.        **Application Data Sheet. (37 CFR 1.76)**
7.        CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)
8.        Nucleotide and/or Amino Acid Sequence Submission  
(if applicable, all necessary)
  - a.        Computer Readable Form (CRF)
  - b.        Specification Sequence Listing on:
    - i.        CD-ROM or CD-R (2 copies); or
    - ii.        paper
  - c.        Statement verifying identity of above copies

2/15/01

- 1 -

## ACCOMPANYING APPLICATION PARTS

- |     |              |  |
|-----|--------------|--|
| 9.  | _____        | <b>Assignment Papers (cover sheet &amp; documents(s))</b>  |
| 10. | _____        | a. Separate 37 CFR 3.73(b) Statement (where there is an assignee)  |
|     | _____        | b. Power of Attorney   |
| 11. | _____        | English Translation Document (if applicable)   |
| 12. | _____        | a. Information Disclosure Statement (IDS)/PTO-1449   |
|     | _____        | b. Copies of IDS Citations   |
| 13. | _____        | <b>Preliminary Amendment</b>   |
| 14. | <u>  X  </u> | <b>Return Receipt Postcard (MPEP 503) (Should be specifically itemized)</b>  |
| 15. | _____        | Certified Copy of Priority Document(s) (if foreign priority is claimed)  |
| 16. | _____        | <b>Request and Certification under 35 U.S.C. 122(b)(2)(B)(i). <u>Applicant must attach form PTO/SB/35 or its equivalent.</u></b> |
| 17. | X            | Other: <u>separate title page with express mail certificate, copy of postcard and attorney's signature</u>                       |

**18A. If a CONTINUING APPLICATION, check appropriate box and supply the requisite information:**

Continuation Of Prior Application No.: \_\_\_\_\_ Divisional Examiner \_\_\_\_\_ Continuation-in-part (CIP) Group Art Unit \_\_\_\_\_  
 (which is a \_\_\_\_\_ continuation/ \_\_\_\_\_ divisional/ \_\_\_\_\_ CIP of prior application no. \_\_\_\_\_,  
 which is a \_\_\_\_\_ continuation/ \_\_\_\_\_ divisional/ \_\_\_\_\_ CIP of prior application no. \_\_\_\_\_) (List entire chain of priority)

**Applicant(s):** Also include a Preliminary Amendment to amend the specification to claim priority. For CONTINUATION AND DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

**18B. Statement under 37 CFR 3.73(b) for continuing application:**

The undersigned states that \_\_\_\_\_ (name of assignee) is the assignee of the entire right, title, and interest in the accompanying patent application by virtue of an assignment recorded in the Patent and Trademark Office at Reel No. \_\_\_\_\_ Frame No. \_\_\_\_\_ (or a copy of which is attached).

|     |                        |
|-----|------------------------|
| 19. | Correspondence Address |
|-----|------------------------|

Customer Number or Bar Code Label  
or  
(Insert Customer No. or Attach Bar Code Label here)

|          |                              |
|----------|------------------------------|
| <b>X</b> | Correspondence Address Below |
|----------|------------------------------|

NAME Dennis M. de Guzman

BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP

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## Seventh Floor

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Name (PRINT/TYPE) Dennis M. de Guzman Registration No.: 41,702

Signature: Dennis M. de G... Date: 3/21/01

**FEE TRANSMITTAL FOR FY 2001****TOTAL AMOUNT OF PAYMENT (\$)** 818.00**Complete if Known:****Application No.** New Application**Filing Date** Herewith**First Named Inventor** Francisco A. Leon**Group Art Unit** \_\_\_\_\_**Examiner Name** \_\_\_\_\_**Attorney Docket No.** 42390.P11005**METHOD OF PAYMENT (check one)**

1. ☒ **The Commissioner is hereby authorized to charge indicated fees and credit any over payments to:**

**Deposit Account Number** 02-2666**Deposit Account Name** \_\_\_\_\_

- ☒ **Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17**

- ☐ **Applicant claims small entity status. See 37 CFR 1.27**

2. ☒ **Payment Enclosed:** ☒ **Check**  
☐ **Credit Card**  
☐ **Money Order**  
☐ **Other**

**FEE CALCULATION****1. BASIC FILING FEE**

| <u>Large Entity</u>    |                 | <u>Small Entity</u> |                 | <u>Fee Description</u>             | <u>Fee Paid</u> |
|------------------------|-----------------|---------------------|-----------------|------------------------------------|-----------------|
| <u>Code</u>            | <u>Fee (\$)</u> | <u>Code</u>         | <u>Fee (\$)</u> |                                    |                 |
| 101                    | 710             | 201                 | 355             | Utility application filing fee     | <u>710.00</u>   |
| 106                    | 320             | 206                 | 160             | Design application filing fee      | _____           |
| 107                    | 490             | 207                 | 245             | Plant filing fee                   | _____           |
| 108                    | 710             | 208                 | 355             | Reissue filing fee                 | _____           |
| 114                    | 150             | 214                 | 75              | Provisional application filing fee | _____           |
| <b>SUBTOTAL (1) \$</b> |                 |                     |                 |                                    | <u>710.00</u>   |

**2. EXTRA CLAIM FEES**

|                           |           | <u>Extra Claims</u> | <u>Fee from below</u> | <u>Fee Paid</u> |
|---------------------------|-----------|---------------------|-----------------------|-----------------|
| <b>Total Claims</b>       | <u>26</u> | - 20** = <u>6</u>   | X <u>18.00</u>        | = <u>108.00</u> |
| <b>Independent Claims</b> | <u>3</u>  | - 3** = <u>0</u>    | X _____               | = _____         |
| <b>Multiple Dependent</b> |           |                     | _____                 | = _____         |

**\*\*Or number previously paid, if greater; For Reissues, see below.**

| <u>Large Entity</u> |                 | <u>Small Entity</u> |                 | <u>Fee Description</u>                                    |
|---------------------|-----------------|---------------------|-----------------|---|
| <u>Code</u>         | <u>Fee (\$)</u> | <u>Code</u>         | <u>Fee (\$)</u> |   |
| 103                 | 18              | 203                 | 9               | Claims in excess of 20                                    |
| 102                 | 80              | 202                 | 40              | Independent claims in excess of 3                         |
| 104                 | 270             | 204                 | 135             | Multiple dependent claim, if not paid                     |
| 109                 | 80              | 209                 | 40              | **Reissue independent claims over original patent         |
| 110                 | 18              | 210                 | 9               | **Reissue claims in excess of 20 and over original patent |

**SUBTOTAL (2) \$** 108.00

**FEE CALCULATION (continued)****3. ADDITIONAL FEES**


| <u>Large Entity</u> |                 | <u>Small Entity</u> |                 | <u>Fee Description</u>   | <u>Fee Paid</u> |
|---------------------|-----------------|---------------------|-----------------|--|-----------------|
| <u>Fee Code</u>     | <u>Fee (\$)</u> | <u>Fee Code</u>     | <u>Fee (\$)</u> |  |                 |
| 105                 | 130             | 205                 | 65              | Surcharge - late filing fee or oath  | _____           |
| 127                 | 50              | 227                 | 25              | Surcharge - late provisional filing fee or cover sheet                     | _____           |
| 139                 | 130             | 139                 | 130             | Non-English specification  | _____           |
| 147                 | 2,520           | 147                 | 2,520           | For filing a request for ex parte reexamination                            | _____           |
| 112                 | 920*            | 112                 | 920*            | Requesting publication of SIR prior to Examiner action                     | _____           |
| 113                 | 1,840*          | 113                 | 1,840*          | Requesting publication of SIR after Examiner action                        | _____           |
| 115                 | 110             | 215                 | 55              | Extension for reply within first month                                     | _____           |
| 116                 | 390             | 216                 | 195             | Extension for reply within second month                                    | _____           |
| 117                 | 890             | 217                 | 445             | Extension for reply within third month                                     | _____           |
| 118                 | 1,390           | 218                 | 695             | Extension for reply within fourth month                                    | _____           |
| 128                 | 1,890           | 228                 | 945             | Extension for reply within fifth month                                     | _____           |
| 119                 | 310             | 219                 | 155             | Notice of Appeal   | _____           |
| 120                 | 310             | 220                 | 155             | Filing a brief in support of an appeal                                     | _____           |
| 121                 | 270             | 221                 | 135             | Request for oral hearing   | _____           |
| 138                 | 1,510           | 138                 | 1,510           | Petition to institute a public use proceeding                              | _____           |
| 140                 | 110             | 240                 | 55              | Petition to revive - unavoidable   | _____           |
| 141                 | 1,240           | 241                 | 620             | Petition to revive - unintentional   | _____           |
| 142                 | 1,240           | 242                 | 620             | Utility issue fee (or reissue)   | _____           |
| 143                 | 440             | 243                 | 220             | Design issue fee   | _____           |
| 144                 | 600             | 244                 | 300             | Plant issue fee  | _____           |
| 122                 | 130             | 122                 | 130             | Petitions to the Commissioner  | _____           |
| 123                 | 50              | 123                 | 50              | Processing fee under 37 CFR 1.17(q)  | _____           |
| 126                 | 180             | 126                 | 180             | Submission of Information Disclosure Stmt                                  | _____           |
| 581                 | 40              | 581                 | 40              | Recording each patent assignment per property (times number of properties) | _____           |
| 146                 | 710             | 246                 | 355             | For filing a submission after final rejection (see 37 CFR 1.129(a))        | _____           |
| 149                 | 710             | 249                 | 355             | For each additional invention to be examined (see 37 CFR 1.129(b))         | _____           |
| 179                 | 710             | 279                 | 355             | Request for Continued Examination (RCE)                                    | _____           |
| 169                 | 900             | 169                 | 900             | Request for expedited examination of a design application                  | _____           |
| 195                 | 300             | 195                 | 300             | Publication fee for early, voluntary, or normal publication                | _____           |
| 196                 | 300             | 196                 | 300             | Publication fee for republication  | _____           |
| 194                 | 130             | 194                 | 130             | Request for voluntary publication or republication                         | _____           |
| 098                 | 130             | 098                 | 130             | Processing fee under 37 CFR 1.17(i)  | _____           |
| 091                 | 1,240           | 091                 | 1,240           | Acceptance of unintentionally delayed claim for priority                   | _____           |

Other fee (specify) \_\_\_\_\_

Other fee (specify) \_\_\_\_\_

**SUBTOTAL (3) \$ 00.00**

\*Reduced by Basic Filing Fee Paid

**SUBMITTED BY:**Typed or Printed Name: Dennis M. de GuzmanSignature:  Date: 3/21/01Reg. Number: 41,702 Telephone Number: 425-827-8600**WARNING:** Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

Our Reference: 42390.P11005

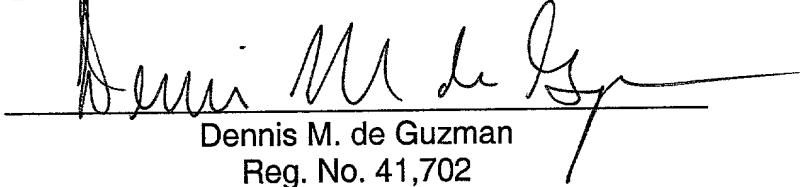
Patent

**METHOD OF FABRICATION TO SHARPEN CORNERS OF Y-BRANCHES  
IN INTEGRATED OPTICAL COMPONENTS  
AND OTHER MICRO-DEVICES**

Inventors: Francisco A. Leon and Everett X. Wang

Respectfully submitted,

BLAKELY SOKOLOFF TAYLOR & ZAFMAN LLP

  
Dennis M. de Guzman  
Reg. No. 41,702

11033 U.S. PTO  
09/814424  
03/21/01

"Express Mail" mailing label number: EL431685258US

Date of Deposit: March 21, 2001

I hereby certify that I am causing this paper or fee to be deposited with the United States Postal Service "Express Mail Post Office to Addressee" service on the date indicated above and that this paper or fee has been addressed to the Assistant Commissioner for Patents, Washington, D. C. 20231

**Melanie Besecker**

(Typed or printed name of person mailing paper or fee)

Melanie Besecker 3-21-01

(Signature of person mailing paper or fee) (Date signed)

Serial/Patent No.: New Application Filing/Issue Date: Herewith  
Client: Intel Corporation  
Title: METHOD OF FABRICATION TO SHARPEN CORNERS OF Y-BRANCHES IN INTEGRATED OPTICAL COMPONENTS AND OTHER MICRO-DEVICES  
BSTZ File No.: 42390.P11005 Atty/Secty Initials: DMG:mmb  
Date Mailed: March 21, 2001 Docket Due Date:

The following has been received in the U.S. Patent & Trademark Office on the date stamped hereon:

- |   |   |
|---|---|
| <input type="checkbox"/> Amendment/Response (____pgs.)  | <input checked="" type="checkbox"/> Express Mail No. <u>EL431685258US</u> Check No. _____   |
| <input type="checkbox"/> Appeal Brief (____pgs.) (in triplicate)                                      | <input type="checkbox"/> _____Month(s) Extension of Time Amt: _____   |
| <input checked="" type="checkbox"/> Application - Utility ( <u>17</u> pgs., with cover and abstract)  | <input type="checkbox"/> Information Disclosure Statement & PTO-1449 (____pgs.) <input checked="" type="checkbox"/> Check No. <u>001098</u> |
| <input type="checkbox"/> Application - Rule 1.53(b) Continuation (____pgs.)                           | <input type="checkbox"/> Issue Fee Transmittal Amt: <u>818.00</u>   |
| <input type="checkbox"/> Application - Rule 1.53(b) Divisional (____pgs.)                             | <input type="checkbox"/> Notice of Appeal   |
| <input type="checkbox"/> Application - Rule 1.53(b) CIP (____pgs.)                                    | <input type="checkbox"/> Petition for Extension of Time   |
| <input type="checkbox"/> Application - Rule 1.53(d) CPA Transmittal (____pgs.)                        | <input type="checkbox"/> Petition for _____   |
| <input type="checkbox"/> Application - Design (____pgs.)  | <input checked="" type="checkbox"/> Postcard  |
| <input type="checkbox"/> Application - PCT (____pgs.)   | <input type="checkbox"/> Power of Attorney (____pgs.)   |
| <input type="checkbox"/> Application - Provisional (____pgs.)   | <input type="checkbox"/> Preliminary Amendment (____pgs.)   |
| <input type="checkbox"/> Assignment and Cover Sheet   | <input type="checkbox"/> Reply Brief (____pgs.)   |
| <input checked="" type="checkbox"/> Certificate of Mailing  | <input type="checkbox"/> Response to Notice of Missing Parts  |
| <input checked="" type="checkbox"/> Declaration & POA ( <u>6</u> pgs.) (unsigned)                     | <input type="checkbox"/> Small Entity Declaration for Indep. Inventor/Small Business  |
| <input type="checkbox"/> Disclosure Docs & Orig & Copy of Inventor's Signed Letter (____pgs.)         | <input checked="" type="checkbox"/> Transmittal Letter, in duplicate ( <u>2</u> pgs each)   |
| <input checked="" type="checkbox"/> Drawings: <u>4</u> # of sheets includes <u>9</u> figures          | <input checked="" type="checkbox"/> Fee Transmittal, in duplicate ( <u>2</u> pgs each)  |
| <input checked="" type="checkbox"/> Other <u>* separate title page with express mail certificate,</u> |   |
| <u>copy of postcard and attorney's signature (1pg)</u>  |   |